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PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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·		Application Number	10/764,345		
TRANSMITTAL		Filing Date	Jan 23, 2004		
FORM		First Named Inventor	Liu		
(to be used for all correspondence afte	er initial filing)	Group Art Unit			
		Examiner Name			
Total Number of Pages in This Submi	ission	Attorney Docket Number	MS1-1811US		
	ENCL	OSURES (check	all that apply)		
Fee Transmittal Form Fee Attached Amendment / Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53	Assignm (for an A Drawing Licensin Petition Provisio Change Address Termina Reques	nent Papers Application)	After Allowance Communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please identify below): PTO Form 1449; 20 cited references; return postcard		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT					
Firm or Individual name Signature Date Kase C. Christie, Reg/No. 40,559 A -27 -04					
CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date: 9/29/04 Typed or printed name Carly Taylor Signature Date 9/29/04					

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PTO/SB/17 (10-03)
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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

Complete if Known				
Application Number	10/764,345			
Filing Date	Jan 23, 2004	_		
First Named Inventor	Liu			
Examiner Name				
Art Unit				
Attorney Docket No.	MS1-1811US			

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
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Deposit Account:	<u>Large</u>		Small	Entity		
Deposit 40.0700	Fee Code		Fee Code	Fee (\$)	Fee Description	Fee Paid
Account 12-0769	1051	130	2051		Surcharge - late filing fee.or oath	T CO F AIG
Deposit Account Lee & Hayes, PLLC	1052	50	2052	25	Surcharge - late provisional filing fee or	
Name	1053	130	1053	130	Cover sheet Non-English specification	
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments		2,520	1812		For filing a request for ex parte reexamination	
Charge fee(s) indicated below Credit any overpayments Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to	
Charge fee(s) indicated below, except for the filing fee		4 - 4 - 4 - 4			Examiner action	
to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month	
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Pead Fee Paid Fee Paid Fee Paid	1254	1,480	2254	740	Extension for reply within fourth month	
1001 770 2001 385 Utility filing fee	1255	2,010	2255	1,005	Extension for reply within fifth month	
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 0.00	1452	110	2452	55	Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUI	1453	1,330	2453	665	Petition to revive - unintentional	
Fee from	1501	1,330	2501	665	Utility issue fee (or reissue)	
Extra Claims below Fee Paid Total Claims	1	480	2502		Design issue fee	
Independent 23th - V	1503	640	2503		Plant issue fee	
Claims — — — — — — — — — — — — — — — — — — —	1460	130	1460		Petitions to the Commissioner	
Large Entity Small Entity	1807	50	1807		Processing fee under 37 CFR 1.17(q)	
Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt	
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021	40	8021	l 40	Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2017	. 205	(37 CFR 1.129(a)) For each additional invention to be	
1204 86 2204 43 ** Reissue independent claims	1010	770	2810	, 305	examined (37 CFR 1.129(b))	\Box
over original patent	1801	770	2801	385	Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 0.00	11	fee (sp				
**or number previously paid, if greater; For Reissues, see above	*Redu	ced by	Basic I	Filing F	ee Paid SUBTOTAL (3) (\$) 0.00	

or number previ	ously paid, il greater, re	UI REISSUES SEE AUG	ve · I	σοβιστικέ (σ) (φ) σισσ	_
SUBMITTED BY				(Complete (if applicable))	
Name (Print/Type)	Kazey C. Chris	tje /	Registration No. (Attorney/Agent) 40,559	Telephone (509) 324-9256	
Signature	700			Date 9-27-04	
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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.	10/764,345
Filing Date	Jan 23, 2004
Confirmation No	5777
Inventorship	Liu
Applicant	Microsoft Corporation
Group Art Unit	*
Examiner	
Attorney's Docket No	MS1-1811US
Title: Watermarking via Quantization of Rational Statis	stics of Regions

INFORMATION DISCLOSURE STATEMENT

References -- See Attached Form PTO-1449

REMARKS

The citations listed, copies attached, are submitted in compliance with the duty of disclosure defined in 37 CFR §1.56. The Examiner is requested to make these citations of official record in this application.

Reg. No. 40,559

Respectfully Submitted,

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Substitute for form 1449A/PTO	0	Complete if Known	
	Application Number	10/764,345	
INFORMATION DISCLOSURE	Filing Date	Jan 23, 2004	
STATEMENT BY APPLICANT	First Named Inventor	Liu	
•	Group Art Unit		
(use as many sheets as necessary)	Examiner Name		

Attorney Docket Number

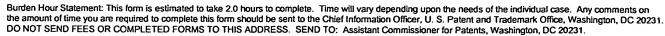
MS1-1811US

				U.S. PATENT DOCL	JMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Number	Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5465353		Hull et al.	11/07/1995	
		5613004		Cooperman et al.	03/18/1997	
		5664016		Preneel et al.	09/02/1997	
		5689639		Schwarz	11/18/1997	
		5809498		Lopresti et al.	09/15/1998	
		6101602		Fridrich	08/08/2000	
		6363463		Mattison	03/26/2002	
		6370272		Shimizu	04/09/2002	- · · · · · · · · · · · · · · · · · · ·
}		6700989		Itoh et al.	03/02/2004	
		5875264		Carlstrom	02/23/1999	
		5351310		Califano et al.	09/27/1994	
		6321232		Syeda-Mahmood	11/20/2001	
		5953451		Syeda-Mahmood	09/14/1999	
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Examiner Initials*	Cite No.1	Office	Foreign Patent Do Number4	cument Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
			EP 0581317		Interactive Home Systems	02/02/1994		
			WO 01/11890		Macrovision Corporation	02/15/2001		1
			WO 01/28230		Koniklijke Philips Electronics	04/19/2001		1
			WO 99/17537		Hewlett-Packard Company	04/08/1999		
			WO 99/18723		Macrovision Corporation	04/15/1999		
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Examiner	Date	
Signature	Consid	ered

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



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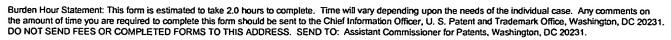


Substitute for form 1449B/PTO		Co	omplete if Known			
				Application Number	10/764,345	
INF	ORMATION	1 D	ISCLOSURE	Filing Date	Jan 23, 2004	
STA	TEMENT I	3 Y	APPLICANT	First Named Inventor	Liu	
OTATEMENT BY ACTEIOANT			ALL LIGARIT	Group Art Unit		
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hoot	2	Ωf	3	Attorney Docket Number	MC1 191111C	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
		Chang et al.,"RIME: A Replicated Image Detector for the World-Wide Web" Proceedings of the SPIE Vol. 3527 2-4 November 1998 pages 58-67.	
		Kesal et al., "Iteratively Decodable Codes for Watermarking Applications" Proceedings of the Second Symposium on Turbo Codes and Their Applications France September 2000 4 pages.	
		Malvar, "A Modulated Complex Lapped Transform and its Applications to Audio Processing" IEEE ICASSP'99 Phoenix AZ. March 1999 pages 1-4.	
		Mihcak et al., "A Perceptual Audio Hashing Algorithm: A Tool For Robust Audio Identification and Information Hiding" Proceedings of the Information Hiding Workshop 2001 15 pages.	
		Mihcak et al., "Cryptanalysis of Discrete-Sequence Spread Spectrum Watermarks" Proceedings of the Information Hiding Workshop Holland 2002 21 pages.	
		Mihcak et al., "New Iterative Geometric Methods for Robust Perceptual Image Hashing" Proceedings of the Security and Privacy Digital Rights Management Workshop 2001 9 pages.	
		Mihcak et al.,"Watermarking via Optimization Algorithms for Quantizing Randomized Statistics of Image Regions" Proceedings of the Annual Allerton Conference on Communication Control and Computing Urbana IL 2002 10 pages.	
		Moulin et al., "A Framework for Evaluating the Data-Hiding Capacity of Image Sources" IEEE Transactions on Image Processing Vol. 11 No. 9 September 2002 pages 1-14.	
		Moulin et al., "The Parallel-Gaussian Watermarking Game" IEEE Transactions Information Theory Feb. 2004 pages 1-36.	
		Venkatesan et al.,"Image Watermarking with Better Resilience" Proceedings of IEEE-ICIP Vancouver BC Canada 2000 4 pages.	
		Venkatesan et al., "Robust Image Hashing" Proceedings of the IEEE-ICIP Vancouver BC Canada 2000 3 pages.	

Examiner	Date	
Signature	Considered	

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.



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				Application Number	10/764,345	
INF	ORMATION	1 D	ISCLOSURE	Filing Date Jan 23, 2004 First Named Inventor Liu Group Art Unit Examiner Name		
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	(use as many s	sheet	's as necessary)	Examiner Name		
heet	3	of	3	Attorney Docket Number	MS1-1811US	

	1	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the art	olo (whom anno ===	ata\ titla af the	
Examiner Initials*	Cite No.1	include name of the author (in CAPITAL LETTERS), title of the art item (book, magazine, journal, serial, symposium, catalog, etc.), date publisher, city and/or country where pub	, page(s), volume-i		T²
		Echizen et al., "General Quality Maintenance Module for Motion Watermarking" IEEE Trans. on Consumer Electronics Vol. 45		99 pp1150-1158.	
		Fridrich et al., "Robust Hash Functions for Digital Watermarki Information Technology: Coding and Computing March 2000	ng" Proc. Int. C pp 178-183.	conf. on	
		Lee et al., "Adaptive Video Watermarking Using Motion Inform Vol. 3971: Security and Watermarking of Multimedia Contents	nation" Proc SF s II Jan 2000 pp	PIE o. 209-216.	
		Wu et al., "Video Access Control Via Multi-level Data Hiding' Conf. on Multimedia and Expo Vol. I Jul/Aug 2000 pp 381-38			
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